

Nominal data

Type	W1G250-CH67-52	
Motor	M1G074-BF	
Nominal voltage	VDC	48
Nominal voltage range	VDC	36 .. 57
Type of data definition		fa
Speed	min ⁻¹	2750
Power input	W	105
Current draw	A	2.6
Max. back pressure	Pa	140
Min. ambient temperature	°C	- 25
Max. ambient temperature	°C	+60

ml = max. load · me = max. efficiency · fa = running at free air · cs = customer specs · cu = customer unit
Subject to alterations

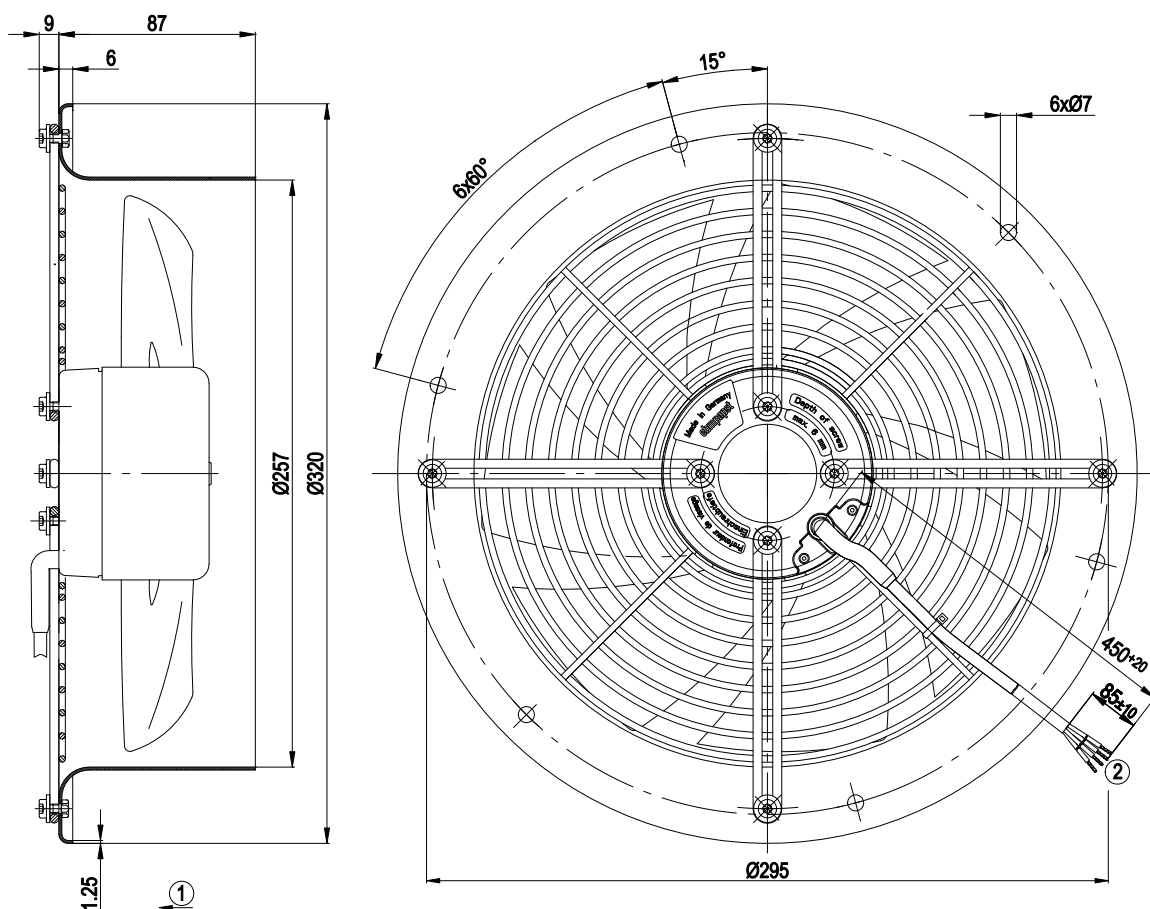
Technical features

Mass	2.85 kg
Size	250 mm
Surface of rotor	Coated in black
Material of electronics housing	Die-cast aluminium, coated in black
Material of blades	Sheet steel, coated in black
Material of wall ring	Sheet steel, pre-galvanised and coated in black plastic
Material of guard grille	Steel, phosphated and coated in black plastic
Number of blades	7
Direction of air flow	"V"
Direction of rotation	Counter-clockwise, seen on rotor
Type of protection	IP 42
Insulation class	"B"
Humidity class	F0
Max. permissible ambient motor temp. (transp./ storage)	+80 °C
Min. permissible ambient motor temp. (transp./storage)	-40 °C
Mounting position	Any
Condensate discharge holes	None
Operation mode	S1
Motor bearing	Ball bearing
Technical features	- Control input 0-10 VDC / PWM - Tach output - Motor current limit - Soft start
EMC interference immunity	Acc. to EN 61000-6-2 (industrial environment)
EMC interference emission	Acc. to EN 55022 (Class B)
Motor protection	Reverse polarity and locked-rotor protection
Cable exit	Lateral
Product conforming to standard	EN 60950-1
Approval	CSA C22.2 Nr.77; UL 1004-1

EC axial fan - ESM

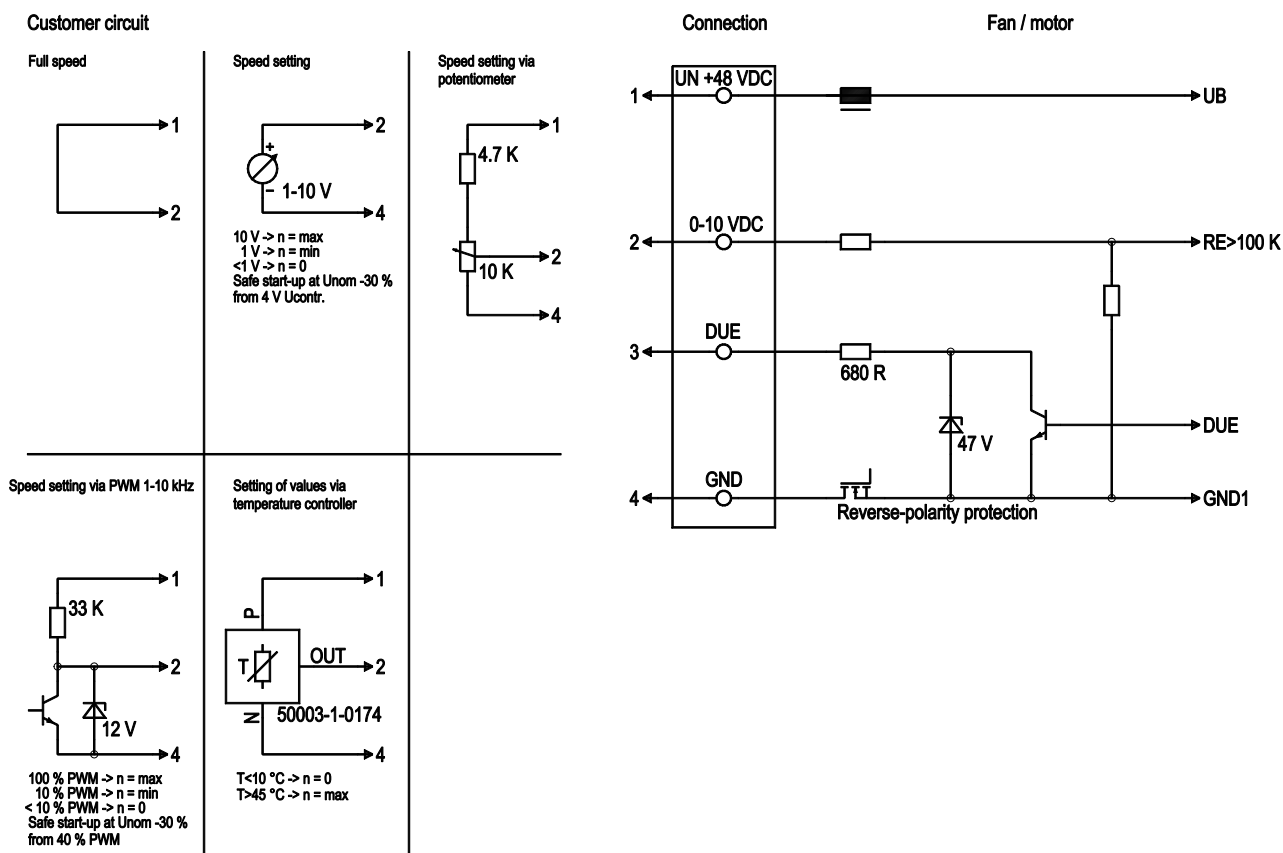
sickled blades (S series)
with full round nozzle

Product drawing



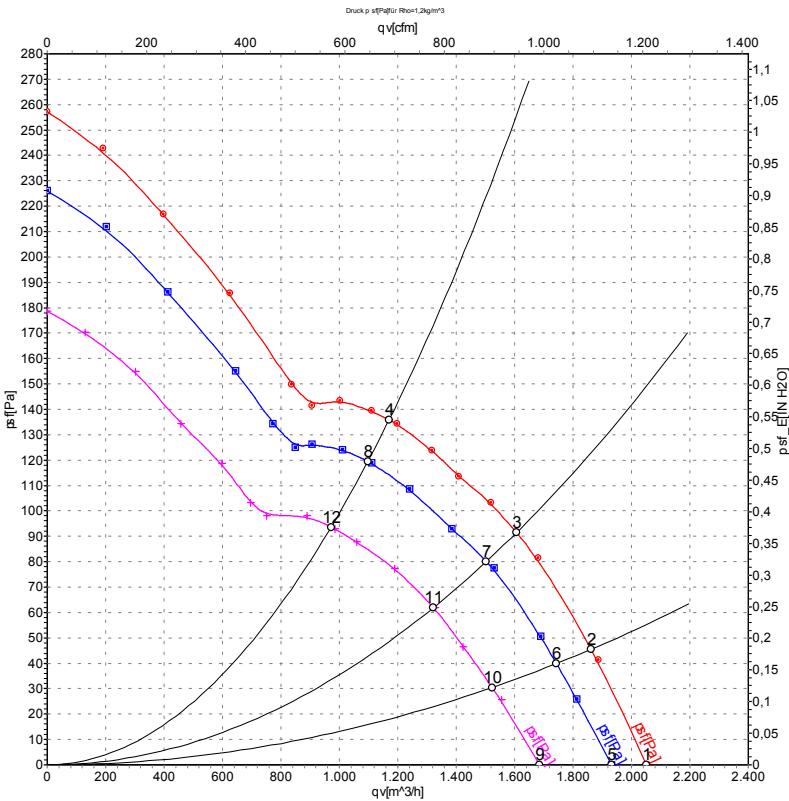
- | | |
|---|--|
| 1 | Direction of air flow "V" |
| 2 | Connecting cable AWG 20, 4 x brass lead tips crimped |

Connection screen



Line	No.	Signal	Colour	Function / assignment
1	1	Un +48 VDC	red	Power supply 48 VDC, residual ripple 3.5 %
1	2	0-10 VDC	yellow	Control input Re > 100 K
1	3	DUE	white	Speed monitoring output, 3 pulses per rotation, Isink max = 10 mA
1	4	GND	blue	Reference mass

Charts: Air flow



Measurement: LU-54178
Measurement: LU-54177
Measurement: LU-54175

Air performance measured as per ISO 5801
Installation category A. For detailed
information on the measuring set-up, please
contact ebm-papst. Suction-side noise
levels: LwA measured as per ISO 13347 /
LpA measured with 1m distance to fan axis.
The values given are valid under the
measuring conditions mentioned above and
may vary according to the actual installation
situation. With any deviation from the
standard set-up, the specific values have to
be checked and reviewed with the unit
installed.

Measured values

	U	n	P _e	I	qv	P _{sf}
	V	min ⁻¹	W	A	m ³ /h	Pa
1	57	2930	129	2.80	2050	0
2	57	2810	132	2.92	1860	47
3	57	2700	136	3.05	1605	92
4	57	2595	139	3.18	1170	136
5	48	2750	105	2.60	1930	0
6	48	2645	109	2.70	1745	40
7	48	2530	111	2.80	1505	80
8	48	2435	114	2.90	1095	120
9	36	2405	73	2.27	1685	0
10	36	2330	75	2.36	1525	31
11	36	2245	78	2.46	1320	62
12	36	2170	80	2.52	970	94

